

# Telephone Apparatus Manufacturing: 2002

Issued December 2004

EC02-311-334210 (RV)

## 2002 Economic Census

*Manufacturing*

Industry Series



U S C E N S U S B U R E A U

*Helping You Make Informed Decisions*

U.S. Department of Commerce  
Economics and Statistics Administration  
U.S. CENSUS BUREAU



## CONTENTS

Introduction to the Economic Census .....	v
Manufacturing .....	ix

### Tables

1. Historical Statistics for the Industry: 2002 and Earlier Years ...	1
2. Industry Statistics for Selected States: 2002 .....	2
3. Detailed Statistics by Industry: 2002 .....	3
4. Industry Statistics by Employment Size: 2002.....	4
5. Industry Statistics by Primary Product Class Specialization: 2002 .....	5
6a. Products Statistics: 2002 and 1997 .....	6
6b. Product Class Shipments for Selected States: 2002 and 1997 .	7
7. Materials Consumed by Kind: 2002 and 1997.....	8

### Appendixes

A. Explanation of Terms .....	A-1
B. NAICS Codes, Titles, and Descriptions .....	B-1
C. Methodology .....	C-1
D. Geographic Notes .....	--
E. Metropolitan and Micropolitan Statistical Areas .....	--
F. Comparability of Product Classes and Product Codes: 2002 to 1997 .....	F-1

-- Not applicable for this report.

# Table 1. Historical Statistics for the Industry: 2002 and Earlier Years

[Data based on the 2002 Economic Census and the 2002 Annual Survey of Manufactures (ASM). For information on confidentiality protection, sampling error, nonsampling error, and explanation of terms, see note at end of table. For meaning of abbreviations and symbols, see introductory text]

Industry and year <sup>1</sup>	Com- panies <sup>2</sup>	All estab- lish- ments <sup>3</sup>	All employees		Production workers			Value added (\$1,000)	Total cost of materials (\$1,000)	Total value of shipments (\$1,000)	Total capital expendi- tures (\$1,000)
			Number <sup>4</sup>	Payroll (\$1,000)	Number <sup>4</sup>	Hours (1,000)	Wages (\$1,000)				
334210, Telephone apparatus manufacturing .....	2002.. 450	518	63 733	3 735 526	18 128	34 303	712 426	14 908 982	11 648 524	27 539 434	'669 790
	2001.. N	N	112 664	6 816 925	36 494	66 234	1 404 158	26 447 968	22 104 466	48 966 894	2 832 632
	2000.. N	N	109 085	7 008 916	40 886	79 091	1 685 919	35 843 013	26 938 685	61 524 499	1 748 101
	1999.. N	N	108 459	6 261 789	42 807	81 064	1 644 325	32 744 780	20 264 666	52 767 369	1 643 858
	1998.. N	N	101 364	5 378 812	41 455	78 424	1 561 854	25 415 686	17 110 827	41 790 925	1 329 885
	1997.. 548	596	103 874	5 377 394	41 969	78 587	1 552 391	23 766 132	14 846 321	38 375 534	1 220 355

<sup>1</sup>Statistics presented for years ending in 2 and 7 are census data. Interim census years are derived in a representative sample of manufacturing establishments canvassed in the Annual Survey of Manufactures (ASM).

<sup>2</sup>For the census, a company is defined as a business organization consisting of one establishment or more under common ownership or control.

<sup>3</sup>Includes establishments with payroll at any time during the year.

<sup>4</sup>Number of employees figures represent average number of production workers for pay period that includes the 12th of March, May, August, and November plus other employees for payroll period that includes the 12th of March.

Note: The data in this table are based on the 2002 Economic Census and the 2002 Annual Survey of Manufactures (ASM). To maintain confidentiality, the Census Bureau suppresses data to protect the identity of any business or individual. The census results in this table contain sampling errors and nonsampling errors. Data users who create their own estimates using data from American FactFinder tables should cite the Census Bureau as the source of the original data only. For explanation of terms, see Appendix A. For full technical documentation, see Appendix C.

**Table 2. Industry Statistics for Selected States: 2002**

[States that are a disclosure or with less than 100 employees are not shown. Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, explanation of terms, and geographical definitions, see note at end of table. For information on geographic areas followed by \*, see Appendix D. For meaning of abbreviations and symbols, see introductory text]

Industry and geographic area	E <sup>1</sup>	All establishments <sup>2</sup>		All employees		Production workers			Value added (\$1,000)	Total cost of materials (\$1,000)	Total value of shipments (\$1,000)	Total capital expenditures (\$1,000)
		Total	With 20 employees or more	Number <sup>3</sup>	Payroll (\$1,000)	Number <sup>3</sup>	Hours (1,000)	Wages (\$1,000)				
<b>334210, Telephone apparatus manufacturing</b>												
United States .....	1	518	276	63 733	3 735 526	18 128	34 303	712 426	14 908 982	11 648 524	27 539 434	'669 790
California .....	1	134	83	16 454	1 127 754	4 041	6 984	169 987	6 857 125	4 846 632	12 136 555	'232 389
Colorado .....	1	15	7	2 886	185 107	799	1 798	36 759	188 229	518 998	803 826	'103 037
Connecticut .....	1	21	11	1 083	58 130	320	590	11 427	171 924	145 119	331 538	'4 723
Florida .....	3	28	11	5 806	521 714	511	963	13 133	1 176 645	204 538	1 412 958	'23 806
Illinois .....	1	25	15	6 895	391 149	1 571	3 255	58 275	667 309	628 449	1 364 046	'39 672
Massachusetts .....	1	32	24	5 720	355 173	1 741	3 693	84 144	1 298 759	1 269 418	2 837 950	'40 003
Michigan .....	1	8	3	352	12 658	184	310	3 940	19 845	27 822	48 312	'736
Minnesota .....	1	13	7	1 110	44 003	807	1 579	27 569	392 103	321 025	712 673	'3 925
New Hampshire .....	1	16	13	1 237	70 559	182	333	7 817	463 737	323 192	815 343	'18 930
New Jersey .....	1	20	9	1 058	55 265	415	714	14 695	128 792	90 043	250 655	'14 668
New York .....	5	29	16	1 594	77 294	649	1 264	20 227	141 866	120 863	273 927	'14 103
North Carolina .....	—	11	5	793	47 229	241	448	9 213	297 828	269 210	570 747	'7 989
Oregon .....	1	5	1	154	4 619	119	188	2 261	12 705	8 312	20 969	'904
Texas .....	—	37	15	5 391	169 372	865	1 635	33 804	771 423	454 296	1 109 895	'23 768
Virginia .....	4	14	7	983	43 035	300	670	9 338	68 326	69 086	142 211	'2 275
Washington .....	—	15	10	1 038	52 415	447	973	12 144	147 671	158 935	312 886	'3 005
Wisconsin .....	6	9	5	498	27 224	120	231	3 257	58 986	32 741	93 610	'1 209

<sup>1</sup>Some payroll and sales data for small single-establishment companies with up to 20 employees (cutoff varied by industry) were obtained from administrative records of other government agencies rather than from census report forms. These data were then used in conjunction with industry averages to estimate statistics for these small establishments. This technique was also used for a small number of other establishments whose reports were not received at the time data were tabulated. The following symbols are shown where estimated data account for 10 percent or more of the figures shown: 1–10 to 19 percent; 2–20 to 29 percent; 3–30 to 39 percent; 4–40 to 49 percent; 5–50 to 59 percent; 6–60 to 69 percent; 7–70 to 79 percent; 8–80 to 89 percent; 9–90 percent or more.

<sup>2</sup>Includes establishments with payroll at any time during the year.

<sup>3</sup>Number of employees figures represent average number of production workers for pay period that includes the 12th of March, May, August, and November plus other employees for payroll period that includes the 12th of March.

Note: The data in this table are based on the 2002 Economic Census. To maintain confidentiality, the Census Bureau suppresses data to protect the identity of any business or individual. The census results in this table contain nonsampling errors. Data users who create their own estimates using data from American FactFinder tables should cite the Census Bureau as the source of the original data only. For explanation of terms, see Appendix A. For full technical documentation, see Appendix C. For geographical definitions, see Appendix D.

**Table 3. Detailed Statistics by Industry: 2002**

[Data based on the 2002 Economic Census and the 2002 Annual Survey of Manufactures (ASM). For information on confidentiality protection, sampling error, nonsampling error, and explanation of terms, see note 2 at end of table. For meaning of abbreviations and symbols, see introductory text]

Item	Value
<b>334210, Telephone apparatus manufacturing</b>	
Companies <sup>1</sup> .....	number.. 450
All establishments <sup>2</sup> .....	number.. 518
Establishments with 1 to 19 employees .....	number.. 242
Establishments with 20 to 99 employees .....	number.. 145
Establishments with 100 employees or more .....	number.. 131
All employees <sup>3</sup> .....	number.. 63 733
Total compensation .....	\$1,000.. 4 504 826
Annual payroll .....	\$1,000.. 3 735 526
Total fringe benefits .....	\$1,000.. 769 300
Production workers, average for year .....	number.. 18 128
Production workers on March 12 .....	number.. 19 995
Production workers on May 12 .....	number.. 19 036
Production workers on August 12 .....	number.. 17 469
Production workers on November 12 .....	number.. 15 976
Production worker hours .....	\$1,000.. 34 303
Production worker wages .....	\$1,000.. 712 426
Total cost of materials .....	\$1,000.. 11 648 524
Materials, parts, containers, packaging, etc., used .....	\$1,000.. 10 706 895
Resales .....	\$1,000.. 685 761
Purchased fuels .....	\$1,000.. 60 429
Purchased electricity .....	\$1,000.. 44 563
Contract work .....	\$1,000.. 150 876
Quantity of electricity purchased for heat and power .....	1,000 kWh.. 637 134
Quantity of electricity generated less sold for heat and power .....	1,000 kWh.. -
Total value of shipments .....	\$1,000.. 27 539 434
Primary products value of shipments .....	\$1,000.. 25 984 365
Secondary products value of shipments .....	\$1,000.. 337 273
Total miscellaneous receipts .....	\$1,000.. 1 217 796
Value of resales .....	\$1,000.. 1 059 437
Contract receipts .....	\$1,000.. 10 860
Other miscellaneous receipts .....	\$1,000.. 147 499
Primary products specialization ratio .....	percent.. 99
Value of primary products shipments made in all industries .....	\$1,000.. 26 283 388
Value of primary products shipments made in this industry .....	\$1,000.. 25 984 365
Value of primary products shipments made in other industries .....	\$1,000.. 299 023
Coverage ratio .....	percent.. 99
Value added .....	\$1,000.. 14 908 982
Total inventories, beginning of year .....	\$1,000.. 5 528 471
Finished goods inventories .....	\$1,000.. 1 968 182
Work-in-process inventories .....	\$1,000.. 807 085
Materials and supplies inventories .....	\$1,000.. 2 753 204
Total inventories, end of year .....	\$1,000.. 3 247 337
Finished goods inventories .....	\$1,000.. 1 348 961
Work-in-process inventories .....	\$1,000.. 444 378
Materials and supplies inventories .....	\$1,000.. 1 453 998
Gross value of depreciable assets (acquisition costs) at beginning of year .....	\$1,000.. '8 517 466
Total capital expenditures (new and used) .....	\$1,000.. '669 790
Buildings and other structures (new and used) .....	\$1,000.. '136 763
Machinery and equipment (new and used) .....	\$1,000.. '533 027
Automobiles, trucks, etc., for highway use .....	\$1,000.. '17 277
Computers and peripheral data processing equipment .....	\$1,000.. '96 381
All other expenditures for machinery and equipment .....	\$1,000.. '419 369
Total retirements .....	\$1,000.. '1 159 618
Gross value of depreciable assets at end of year .....	\$1,000.. '8 027 638
Depreciation charges during year .....	\$1,000.. '887 608
Total rental payments .....	\$1,000.. 432 332
Buildings and other structures .....	\$1,000.. 237 551
Machinery and equipment .....	\$1,000.. 194 781
Total other expenses <sup>4</sup> .....	\$1,000.. 843 384
Response coverage ratio <sup>5</sup> .....	percent.. 63
Repair and maintenance services of buildings and/or machinery <sup>4</sup> .....	\$1,000.. 80 259
Communications services <sup>4</sup> .....	\$1,000.. 66 950
Legal services <sup>4</sup> .....	\$1,000.. 41 408
Accounting, auditing, and bookkeeping services <sup>4</sup> .....	\$1,000.. 18 437
Advertising and promotional services <sup>4</sup> .....	\$1,000.. 48 051
Expensed computer hardware and supplies and purchased computer services <sup>4</sup> .....	\$1,000.. 34 101
Refuse removal (including hazardous waste) services <sup>4</sup> .....	\$1,000.. 5 892
Management consulting and administrative services <sup>4</sup> .....	\$1,000.. 90 609
Taxes and license fees <sup>4</sup> .....	\$1,000.. 30 942
All other expenses <sup>4</sup> .....	\$1,000.. 426 734

<sup>1</sup>For the census, a company is defined as a business organization consisting of one establishment or more under common ownership or control.

<sup>2</sup>Includes establishments with payroll at any time during the year.

<sup>3</sup>Number of employees figures represent average number of production workers for pay period that includes the 12th of March, May, August, and November plus other employees for payroll period that includes the 12th of March.

<sup>4</sup>Based on Annual Survey of Manufactures (ASM) sample data.

<sup>5</sup>A response coverage ratio is derived for this item by calculating the ratio of the weighted employment (establishment data multiplied by sample weight) for those Annual Survey of Manufactures (ASM) establishments that reported to the weighted total employment for all ASM establishments classified in this industry.

Note 1: The amounts shown for other expenses reflect only those services that establishments purchase from other companies.

Note 2: The data in this table are based on the 2002 Economic Census and the 2002 Annual Survey of Manufactures (ASM). To maintain confidentiality, the Census Bureau suppresses data to protect the identity of any business or individual. The census results in this table contain sampling errors and nonsampling errors. Data users who create their own estimates using data from American FactFinder tables should cite the Census Bureau as the source of the original data only. For explanation of terms, see Appendix A. For full technical documentation, see Appendix C.

**Table 4. Industry Statistics by Employment Size: 2002**

[Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, and explanation of terms, see note at end of table. For meaning of abbreviations and symbols, see introductory text]

Employment size class	E <sup>1</sup>	All establishments <sup>2</sup>	All employees		Production workers			Value added (\$1,000)	Total cost of materials (\$1,000)	Total value of shipments (\$1,000)	Total capital expenditures (\$1,000)
			Number <sup>3</sup>	Payroll (\$1,000)	Number <sup>3</sup>	Hours (1,000)	Wages (\$1,000)				
334210, Telephone apparatus manufacturing											
All establishments .....	1	518	63 733	3 735 526	18 128	34 303	712 426	14 908 982	11 648 524	27 539 434	'669 790
Establishments with—											
1 to 4 employees .....	3	133	276	14 796	136	212	3 312	71 409	51 965	128 273	'2 134
5 to 9 employees .....	3	52	364	21 391	87	136	2 902	77 675	53 755	134 582	'2 288
10 to 19 employees .....	3	57	774	45 444	195	362	7 271	244 197	181 889	449 929	'6 728
20 to 49 employees .....	2	72	2 428	131 476	913	1 593	29 624	455 314	301 716	778 331	'14 084
50 to 99 employees .....	2	73	5 238	301 149	1 779	3 388	63 343	1 179 446	970 883	2 267 749	'28 423
100 to 249 employees .....	2	83	12 273	687 169	3 925	7 708	140 687	2 277 416	1 712 746	4 084 206	'113 138
250 to 499 employees .....	1	22	7 625	449 306	2 737	4 924	105 293	1 973 458	1 288 906	3 341 901	'58 838
500 to 999 employees .....	1	15	10 083	636 427	2 498	5 180	103 293	1 385 301	1 630 289	3 165 998	'62 580
1,000 to 2,499 employees .....	—	7	9 704	581 267	3 371	7 064	142 804	4 441 427	3 634 212	8 552 383	'313 181
2,500 employees or more .....	—	4	14 968	867 101	2 487	3 736	113 897	2 803 339	1 822 163	4 636 082	'68 396
Administrative records <sup>4</sup> .....	9	125	940	55 253	248	463	7 440	113 534	78 548	192 088	'2 926

<sup>1</sup>Some payroll and sales data for small single-establishment companies with up to 20 employees (cutoff varied by industry) were obtained from administrative records of other government agencies rather than from census report forms. These data were then used in conjunction with industry averages to estimate statistics for these small establishments. This technique was also used for a small number of other establishments whose reports were not received at the time data were tabulated. The following symbols are shown where estimated data account for 10 percent or more of the figures shown: 1—10 to 19 percent; 2—20 to 29 percent; 3—30 to 39 percent; 4—40 to 49 percent; 5—50 to 59 percent; 6—60 to 69 percent; 7—70 to 79 percent; 8—80 to 89 percent; 9—90 percent or more.

<sup>2</sup>Includes establishments with payroll at any time during the year.

<sup>3</sup>Number of employees figures represent average number of production workers for pay period that includes the 12th of March, May, August, and November plus other employees for payroll period that includes the 12th of March.

<sup>4</sup>Some payroll and sales data for small single-establishment companies with up to 20 employees (cutoff varied by industry) were obtained from administrative records of other government agencies rather than from census report forms. These data were then used in conjunction with industry averages to estimate statistics for these small establishments. Data are also included in respective size classes shown.

Note: The data in this table are based on the 2002 Economic Census. To maintain confidentiality, the Census Bureau suppresses data to protect the identity of any business or individual. The census results in this table contain nonsampling errors. Data users who create their own estimates using data from American FactFinder tables should cite the Census Bureau as the source of the original data only. For explanation of terms, see Appendix A. For full technical documentation, see Appendix C.

**Table 5. Industry Statistics by Primary Product Class Specialization: 2002**

[Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, and explanation of terms, see note at end of table. For meaning of abbreviations and symbols, see introductory text]

Industry or product class code	Industry or primary product class	All establishments <sup>1</sup>	All employees		Production workers			Value added (\$1,000)	Total cost of materials (\$1,000)	Total value of shipments (\$1,000)	Total capital expenditures (\$1,000)
			Number <sup>2</sup>	Payroll (\$1,000)	Number <sup>2</sup>	Hours (1,000)	Wages (\$1,000)				
334210	Telephone apparatus manufacturing ..	518	63 733	3 735 526	18 128	34 303	712 426	14 908 982	11 648 524	27 539 434	'669 790
3342101	Telephone switching and switchboard equipment.....	44	20 034	1 147 630	5 329	9 684	230 218	4 225 638	3 278 092	7 662 034	'87 566
3342104	Telephone and telegraph (wire) apparatus, carrier line equipment (office and line repeaters and line terminating carrier equipment) and nonconsumer modems, including auxiliary sets.....	57	16 532	926 695	4 895	10 053	177 824	1 968 149	2 057 382	4 366 849	'107 282
3342107	Other telephone and telegraph (wire) apparatus, including telephone sets, telephone answering, and fax machines .....	120	16 852	1 020 620	5 360	10 233	204 981	7 447 813	5 486 670	13 394 383	'438 368

<sup>1</sup>Includes establishments with payroll at any time during the year.

<sup>2</sup>Number of employees figures represent average number of production workers for pay period that includes the 12th of March, May, August, and November plus other employees for payroll period that includes the 12th of March.

Note: The data in this table are based on the 2002 Economic Census. To maintain confidentiality, the Census Bureau suppresses data to protect the identity of any business or individual. The census results in this table contain nonsampling errors. Data users who create their own estimates using data from American FactFinder tables should cite the Census Bureau as the source of the original data only. For explanation of terms, see Appendix A. For full technical documentation, see Appendix C.

**Table 6a. Products Statistics: 2002 and 1997**

[Includes quantity and value of products of this industry produced by (1) establishments classified in this industry (primary) and (2) establishments classified in other industries (secondary). Transfers of products of this industry from one establishment of a company to another establishment of the same company (interplant transfers) are also included. Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, and explanation of terms, see note 2 at end of table. For meaning of abbreviations and symbols, see introductory text]

Product code	Product	Number of companies with shipments of \$100,000 or more	Quantity of production for all purposes	Product shipments	
				Quantity	Value (\$1,000)
334210	Telephone apparatus manufacturing .....	2002.. N 1997.. N	X X	X X	26 283 388 37 288 172
3342101	Telephone switching and switchboard equipment .....	2002.. N 1997.. N	X X	X X	7 084 659 10 491 799
33421011	Telephone switching and switchboard equipment .....	2002.. N 1997.. N	X X	X X	7 084 659 10 491 799
3342101100	Telephone switching and switchboard equipment <sup>1</sup> .....	2002.. 54 1997.. 87	X X	X X	7 084 659 10 491 799
3342104	Telephone and telegraph (wire) apparatus, carrier line equipment (office and line repeaters and line terminating carrier equipment) and nonconsumer modems, including auxiliary sets .....	2002.. N 1997.. N	X X	X X	4 515 100 7 461 823
33421041	Telephone and telegraph (wire) apparatus, carrier line equipment (office and line repeaters and line terminating carrier equipment) and nonconsumer modems, including auxiliary sets .....	2002.. N 1997.. N	X X	X X	4 515 100 7 461 823
3342104100	Telephone and telegraph (wire) apparatus, carrier line equipment (office and line repeaters and line terminating carrier equipment) and nonconsumer modems, including auxiliary sets <sup>1</sup> .....	2002.. 73 1997.. 106	X X	X X	4 515 100 7 461 823
3342107	Other telephone and telegraph (wire) apparatus, including telephone sets, telephone answering, and fax machines .....	2002.. N 1997.. N	X X	X X	12 771 762 19 081 252
33421071	Other telephone and telegraph (wire) apparatus, including telephone sets, telephone answering, and fax machines .....	2002.. N 1997.. N	X X	X X	12 771 762 19 081 252
3342107100	Other telephone and telegraph (wire) apparatus, including telephone sets, telephone answering, and fax machines <sup>1</sup> .....	2002.. 116 1997.. 236	X X	X X	12 771 762 19 081 252
334210W	Telephone apparatus manufacturing, nsk, total .....	2002.. N 1997.. N	X X	X X	1 911 867 253 298
334210WY	Telephone apparatus manufacturing, nsk, total .....	2002.. N 1997.. N	X X	X X	1 911 867 253 298
334210WYWW	Telephone apparatus manufacturing, nsk, for nonadministrative-record establishments .....	2002.. N 1997.. N	X X	X X	1 749 726 60 700
334210WYWY	Telephone apparatus manufacturing, nsk, for administrative-record establishments .....	2002.. N 1997.. N	X X	X X	162 141 192 598

<sup>1</sup>For additional detail, see Current Industrial Report MA334P, Communication and Other Electronic Equipment.

Note 1: For some establishments, data have been estimated from central unit values that are based on quantity-value relationships of reported data. The following symbols are used when percentage of each quantity figure estimated in this manner equals or exceeds 10 percent of published figure: p-10 to 19 percent estimated; q-20 to 29 percent estimated. If 30 percent or more is estimated, figure is replaced by S.

Note 2: The data in this table are based on the 2002 Economic Census. To maintain confidentiality, the Census Bureau suppresses data to protect the identity of any business or individual. The census results in this table contain nonsampling errors. Data users who create their own estimates using data from American FactFinder tables should cite the Census Bureau as the source of the original data only. For explanation of terms, see Appendix A. For full technical documentation, see Appendix C.



**Table 6b. Product Class Shipments for Selected States: 2002 and 1997**

[Product classes covered are those that are economically significant and whose production is geographically dispersed, provided dispersion is not approximated by data in Table 2. Also, product classes are not shown if they are miscellaneous or "not specified by kind" classes. Statistics for some states are withheld because they are either less than \$2 million in product class shipments or they disclose data for individual companies in 2002. Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, explanation of terms, and geographic definitions, see note at end of table. For information on geographic areas followed by \*, see Appendix D. For meaning of abbreviations and symbols, see introductory text]

NAICS product class code	Product class and geographic area	Value of product shipments (\$1,000)
3342101	Telephone switching and switchboard equipment	
	United States..... 2002..	7 084 659
	..... 1997..	10 491 799
	California ..... 2002..	864 907
	..... 1997..	1 251 623
	Illinois ..... 2002..	282 481
	..... 1997..	267 182
3342104	Telephone and telegraph (wire) apparatus, carrier line equipment (office and line repeaters and line terminating carrier equipment) and nonconsumer modems, including auxiliary sets	
	United States..... 2002..	4 515 100
	..... 1997..	7 461 823
	California ..... 2002..	1 109 264
	..... 1997..	1 114 611
	Connecticut ..... 2002..	77 292
	..... 1997..	N
	Illinois ..... 2002..	935 220
	..... 1997..	N
	New Hampshire ..... 2002..	104 255
	..... 1997..	N
	New York ..... 2002..	14 105
	..... 1997..	109 790
	Texas ..... 2002..	277 436
	..... 1997..	1 117 775
	Virginia ..... 2002..	46 301
	..... 1997..	N
	Washington ..... 2002..	87 506
	..... 1997..	N
3342107	Other telephone and telegraph (wire) apparatus, including telephone sets, telephone answering, and fax machines	
	United States..... 2002..	12 771 762
	..... 1997..	19 081 252
	Connecticut ..... 2002..	73 378
	..... 1997..	239 258
	Florida ..... 2002..	36 294
	..... 1997..	113 620
	Illinois ..... 2002..	85 172
	..... 1997..	335 325
	Massachusetts ..... 2002..	716 123
	..... 1997..	1 940 401
	Minnesota ..... 2002..	466 521
	..... 1997..	349 978
	New Jersey ..... 2002..	21 660
	..... 1997..	69 711
	New York ..... 2002..	82 966
	..... 1997..	243 871
	Texas ..... 2002..	337 514
	..... 1997..	1 065 067
	Virginia ..... 2002..	54 683
	..... 1997..	189 017
	Washington ..... 2002..	139 232
	..... 1997..	219 382
	Wisconsin ..... 2002..	15 827
	..... 1997..	29 987

Note: The data in this table are based on the 2002 Economic Census. To maintain confidentiality, the Census Bureau suppresses data to protect the identity of any business or individual. The census results in this table contain nonsampling errors. Data users who create their own estimates using data from American FactFinder tables should cite the Census Bureau as the source of the original data only. For explanation of terms, see Appendix A. For full technical documentation, see Appendix C. For geographical definitions, see Appendix D.

**Table 7. Materials Consumed by Kind: 2002 and 1997**

[Includes quantity and cost of materials consumed or put into production by establishments classified only in this industry. Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, and explanation of terms, see note 2 at end of table. For meaning of abbreviations and symbols, see introductory text]

Material code	Material consumed	Quantity	Delivered cost (\$1,000)
334210	Telephone apparatus manufacturing		
00900001	Total materials .....2002..	X	10 706 895
	.....1997..	X	13 800 381
33441200	Printed circuit boards (without inserted components) for electronic circuitry .....2002..	X	248 022
	.....1997..	X	442 757
001900C4	Printed circuit assemblies, loaded boards, and modules (printed circuit boards with inserted electronic components) .....2002..	X	776 645
	.....1997..	X	615 696
33441300	Semiconductors (including transistors, diodes, rectifiers, and integrated circuits), for electronic circuitry .....2002..	X	682 139
	.....1997..	X	1 117 354
33441400	Capacitors for electronic circuitry .....2002..	X	63 454
	.....1997..	X	102 111
33441500	Resistors for electronic circuitry .....2002..	X	38 894
	.....1997..	X	70 207
001900D3	All other miscellaneous components and accessories, for electronic circuitry (excluding tubes) .....2002..	X	D
	.....1997..	X	1 021 652
33422001	Electronic communication equipment .....2002..	X	3 013 291
	.....1997..	X	1 620 566
33451501	Electrical instrument mechanisms and meter movements (including instrument relays) .....2002..	X	5 486
	.....1997..	X	22 562
33411001	Electronic computer equipment .....2002..	X	D
	.....1997..	X	N
33411200	Purchased peripheral storage devices .....2002..	X	2 131
	.....1997..	X	N
33593101	Current-carrying wiring devices .....2002..	X	25 752
	.....1997..	X	49 021
331000A7	Insulated wire and cable (including magnet wire) .....2002..	X	50 325
	.....1997..	X	122 553
33431005	Loudspeakers, microphones, and tuners (all types) .....2002..	X	6 565
	.....1997..	X	51 007
33531211	Fractional horsepower electric motors (less than 1 hp) .....2002..	X	D
	.....1997..	X	D
32521105	Plastics resins consumed in the form of granules, pellets, powders, liquids, etc. ....2002..	X	14 411
	.....1997..	X	8 391
32610007	Fabricated plastics products (excluding gaskets, hoses, and belting) .....2002..	X	31 485
	.....1997..	X	80 040
332000A9	Sheet metal products (excluding stampings) .....2002..	X	50 011
	.....1997..	X	107 985
332000AC	Metal stampings .....2002..	X	18 037
	.....1997..	X	34 890
33272203	Metal bolts, nuts, screws, washers, rivets, and other screw machine products .....2002..	X	17 583
	.....1997..	X	D
33200033	Other fabricated metal products (excluding forgings) .....2002..	X	16 295
	.....1997..	X	D
33210000	Forgings .....2002..	X	D
	.....1997..	X	N
33100035	Castings, rough and semifinished .....2002..	X	2 764
	.....1997..	X	15 650
33120001	Steel shapes and forms (excluding castings, forgings, and fabricated metal products) .....2002..	X	5 892
	.....1997..	X	23 942
33100038	Aluminum and aluminum-base alloy shapes and forms (excluding castings, forgings, and fabricated metal products) .....2002..	X	14 614
	.....1997..	X	N
33100077	Other nonferrous shapes and forms (excluding castings, forgings, and fabricated metal products) .....2002..	X	408
	.....1997..	X	483
32220017	Paper and paperboard containers (including shipping sacks and other paper packaging supplies) .....2002..	X	67 013
	.....1997..	X	32 435
00970099	All other materials and components, parts, containers, and supplies .....2002..	X	3 482 039
	.....1997..	X	2 277 814
00971000	Materials, ingredients, containers, and supplies, nsk .....2002..	X	1 120 599
	.....1997..	X	5 674 872

Note 1: For some establishments, data have been estimated from central unit values that are based on quantity-value relationships of reported data. The following symbols are used when percentage of each quantity figure estimated in this manner equals or exceeds 10 percent of published figure: p–10 to 19 percent estimated; q–20 to 29 percent estimated. If 30 percent or more is estimated, figure is replaced by S.

Note 2: The data in this table are based on the 2002 Economic Census. To maintain confidentiality, the Census Bureau suppresses data to protect the identity of any business or individual. The census results in this table contain nonsampling errors. Data users who create their own estimates using data from American FactFinder tables should cite the Census Bureau as the source of the original data only. For explanation of terms, see Appendix A. For full technical documentation, see Appendix C.